

Installation and Operating Instructions roller shutter

Before installation please read the following instructions. During transport and storage should be horizontal blind on the ground protected from damage to the box. Shutters should not be placed on the side wall.

Any alterations or changes in the structure blinds can be made only after consultation with the manufacturer or his authorized representative. The sequence of steps when installing external blinds:

1. Check the hole size building.
2. Unpack and check the blind are all the elements necessary for its mounting.
3. On the wall mark the spot drilling under the tape, rope or cable and then drill holes:
 - On tape - first drill bit 12, then $\varnothing 20$
 - On the line - drill $\varnothing 12$
 - The power cord to the motor drill $\varnothing 10$ (in the case of electric shutter)

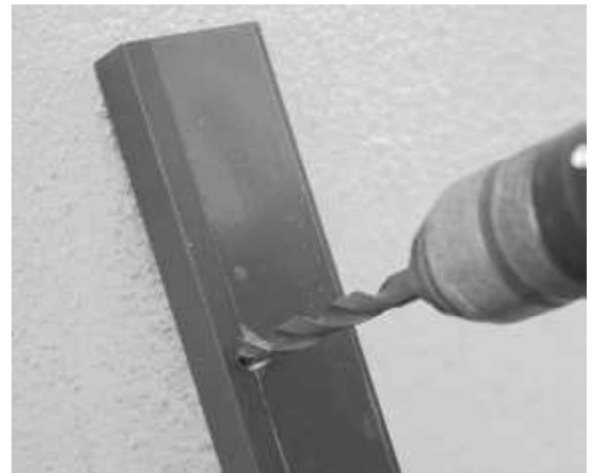


4. Mark location of holes for mounting rails on the wall or frame window.
5. In selected locations, drill holes for dowels. The length and nature adapted to the substrate. Insert plugs into the wall.



6. Drill holes in the rails.

- Drill hole $\varnothing 6$ drilled in the two chambers of the guide
- Drill hole $\varnothing 10$ increase only in the first chamber drilled pre-drill $\varnothing 6$



7. Screw it and align the rails on the surface mounted using spirit level.



8. After making a hole for a tape insert the tube (eg PVC \varnothing 20mm - the company does not provide the items in the kit) and cut flush with the plane outer wall. From inside the tube must be shorter by 2 cm from the plane wall, for the mechanism for the tape..

In the case of links, insert the spring into the hole and match its length to thickness wall. For a wide stretch of the wall should spring for a suitable length.



9. Pass the tape (or wire rope) through the opening to the inside of the building.
10. From the inside of the building mounted on the output tape grommet hole for with expansion bolts.



11. Carefully slide the box on the guide, carefully introducing the pins bacons on top of the rails.



12. Install the retractor:

Pull the tape through the hole and determine the appropriate length of rope / tape needed to be use. To do this, leave the blinds and armor determine where you will mounted retractor. Rope / tape must be cut off, leaving stocks of about 50 cm below mounting location of the retractor.

Make a hole in the tape, hook the tape on the hook. Hold the casing firmly spring to rotate and release the lock by pushing the retractor.

In the case of retractor links, after putting the cable through the opening reel, tan a lighter tip, this prevents unraveling the links.

Close the cover and mount the retractor retractor



13. With blinds over 2 m in length is recommended to screw the box blinds countersunk screws to the lintel using the appropriate pins assembly.

14. Make sure that the shutter is properly mounted (horizontal / vertical), tighten screws in the rails and then insert the plugs. Validate functioning shutters.



15. We recommend that after installing blinds complete the top and side slits between the wall and silicone roller to provide additional sealing and protection against water.,

16. Remove protective film from the box and guides

